

# Emily I. Sprague

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## Education

- Western Michigan University, Kalamazoo, MI  
M.S. Biological Sciences: microbial ecology, April 2018
- Central Michigan University, Mt. Pleasant, MI  
B.S. Biology: microscopy concentration (major), Chemistry (minor), *magna cum laude*, 2012

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## Professional Experience

- September 2018-Present: Research Technologist. Medicine and Biological Sciences Division, The University of Chicago
- Spring 2018: Graduate Research Assistant. Department of Biological Sciences, Western Michigan University
- Fall 2015-Fall 2017: Graduate Teaching Assistant. Department of Biological Sciences, Western Michigan University
- Fall 2008-Spring 2012: Microbiology Laboratory Assistant. Department of Biology, Central Michigan University

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## Publications

- Sprague, E., D. Dupuis, C.M. Koretsky, and K.M. Docherty. The impact of road salt runoff on lacustrine Bacteria and Archaea communities and methane levels. In preparation.
- Dupuis, D., E. Sprague, K.M. Docherty, and C.M. Koretsky. The Influence of Road Salt on Seasonal Mixing, Redox Stratification and Methane Concentrations in Urban Kettle Lakes. *Science of the Total Environment*. 2019.

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## Grants and Awards

- College of Arts and Sciences Graduate Research Assistantship Award (Spring 2018, supplemented Master's research)
- Graduate Student Research Grant (March 2017, supplemented Master's research)
- Teaching Assistantship Award (Fall 2015-Fall 2017, tuition and stipend)

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## Presentations

- Sprague, E., Dupuis, D., Koretsky, C.M., Docherty, K.M. The impact of road salt runoff on methanogens and other lacustrine prokaryotes. Midwest Ecology and Evolution Conference (April 2018, Hickory Corners, MI) *poster presentation*
- Sprague, E., Dupuis, D., Koretsky, C.M., Docherty, K.M. The impact of road salt runoff on methanogens and other lacustrine prokaryotes. American Geophysical Union Fall Meeting (December 2017, New Orleans, LA) *poster presentation*

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- Sprague, E., Dupuis, D., Koretsky, C.M., Docherty, K.M. The effect of road salt runoff on lake methanogens and methane. Sci-Mix Poster Session (November 2017, Kalamazoo, MI) *poster presentation*
- Sprague, E., Dupuis, D., Koretsky, C.M., Docherty, K.M. The effect of road salt runoff on lake methanogens and methane. WMU Research and Creative Activities Poster Day (April 2017, Kalamazoo, MI) *poster presentation*
- Sprague, E., Dupuis, D., Koretsky, C.M., Docherty, K.M. The effect of road salt runoff on lake methanogens and methane. Michigan Academy of Science, Arts and Letters (March 2017, Kalamazoo, MI) *poster presentation*
- Sprague, E. The effects of road salt on freshwater lakes. Three-Minute Thesis Competition (February 2016, Kalamazoo, MI) *oral presentation*

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## Teaching

Western Michigan University

- Microbiology and Infectious Diseases Laboratory (Spring 2017-Fall 2017): responsible for teaching two sections of 16-18 students each, four hours per section, presenting material, producing quizzes, and grading homework.
- Biological Sciences Laboratory (Fall 2016): responsible for teaching two sections of 18-20 students each, three hours per section, presenting material, producing quizzes and written exams, administering lab practical exams, and grading homework.
- Ecology and Evolution Laboratory (Fall 2015-Spring 2016): responsible for teaching two sections of 18-20 students each, three hours per section, presenting material, producing quizzes, grading homework and lab reports.